FIG. 1
(PRIOR ART)

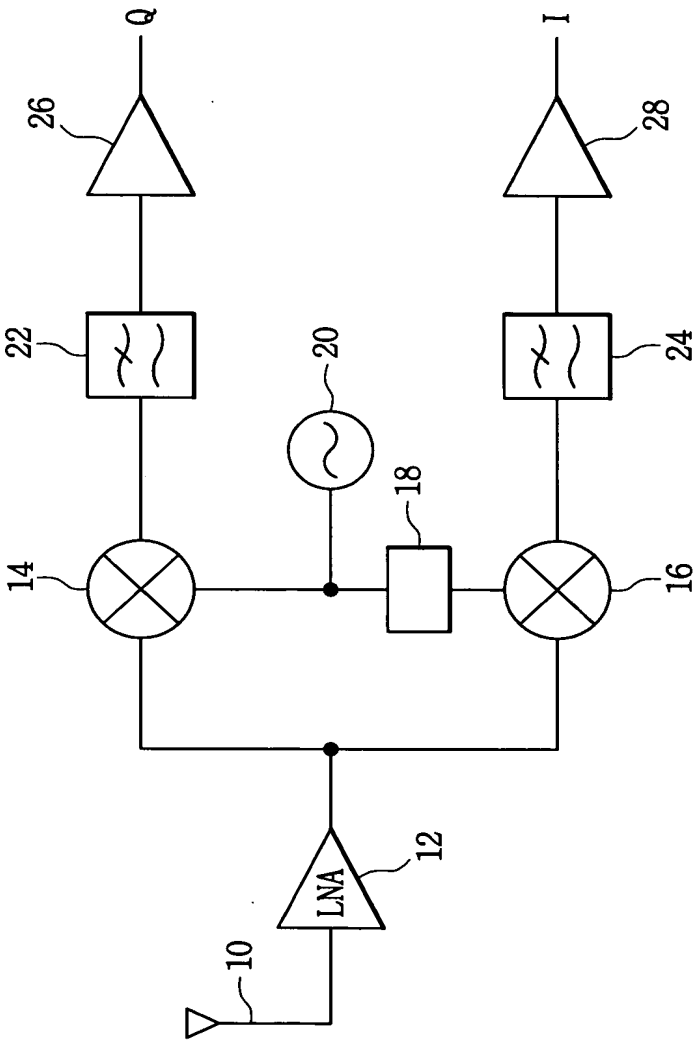


FIG.2

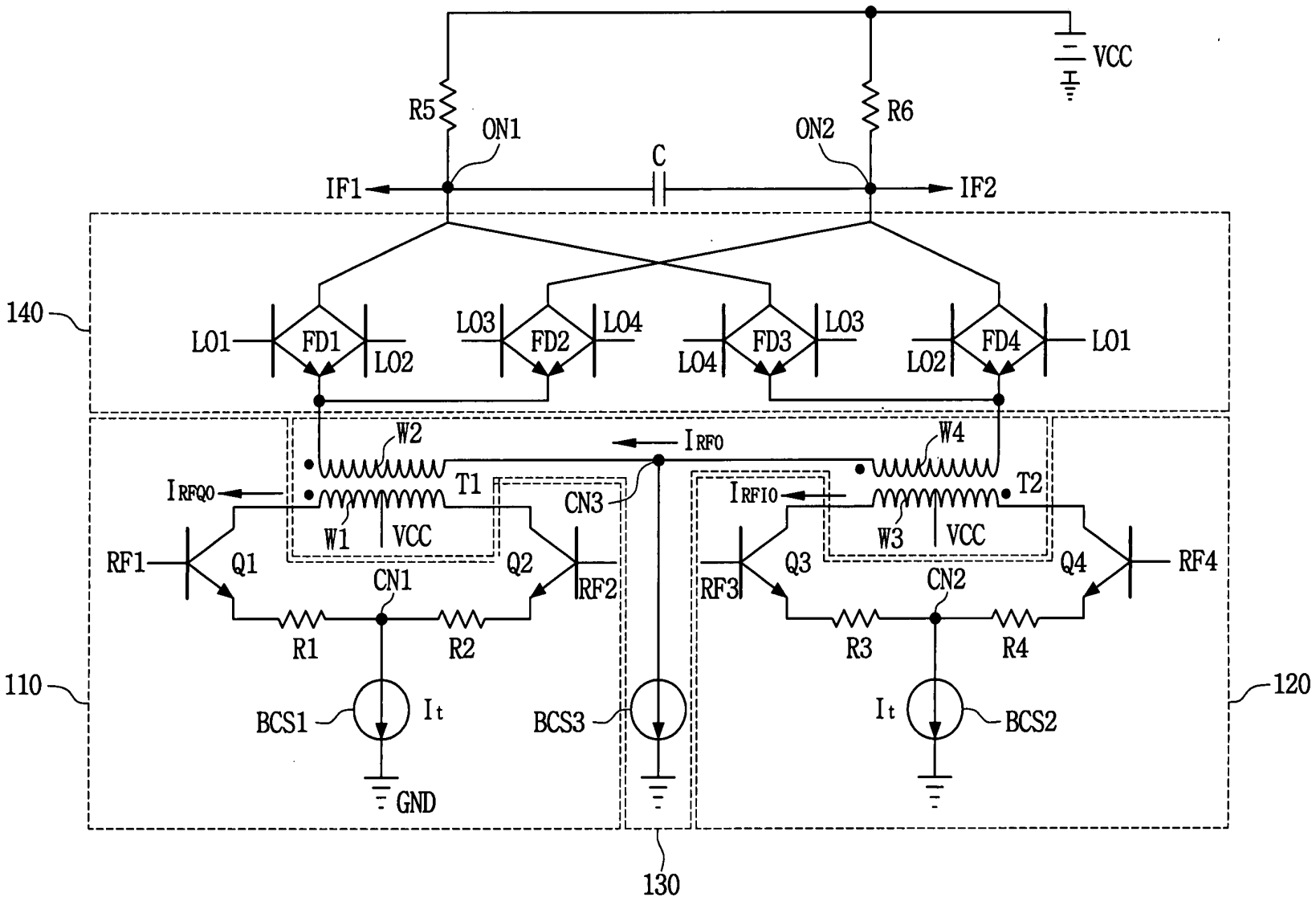

100
VCC
R5
R6
ON1
ON2
C
IF1
IF2
140
LO1
FD1
LO2
LO3
FD2
LO4
LO4
FD3
LO3
LO2
FD4
LO1
W2
W4
IRFO
IRFQO
T1
T2
CN3
IRFIO
W1
VCC
W3
VCC
RF1
Q1
Q2
RF2
Q3
Q4
RF4
RF3
CN1
CN2
R1
R2
R3
R4
110
120
BCS1
It
BCS3
It
BCS2
GND
130

FIG.3

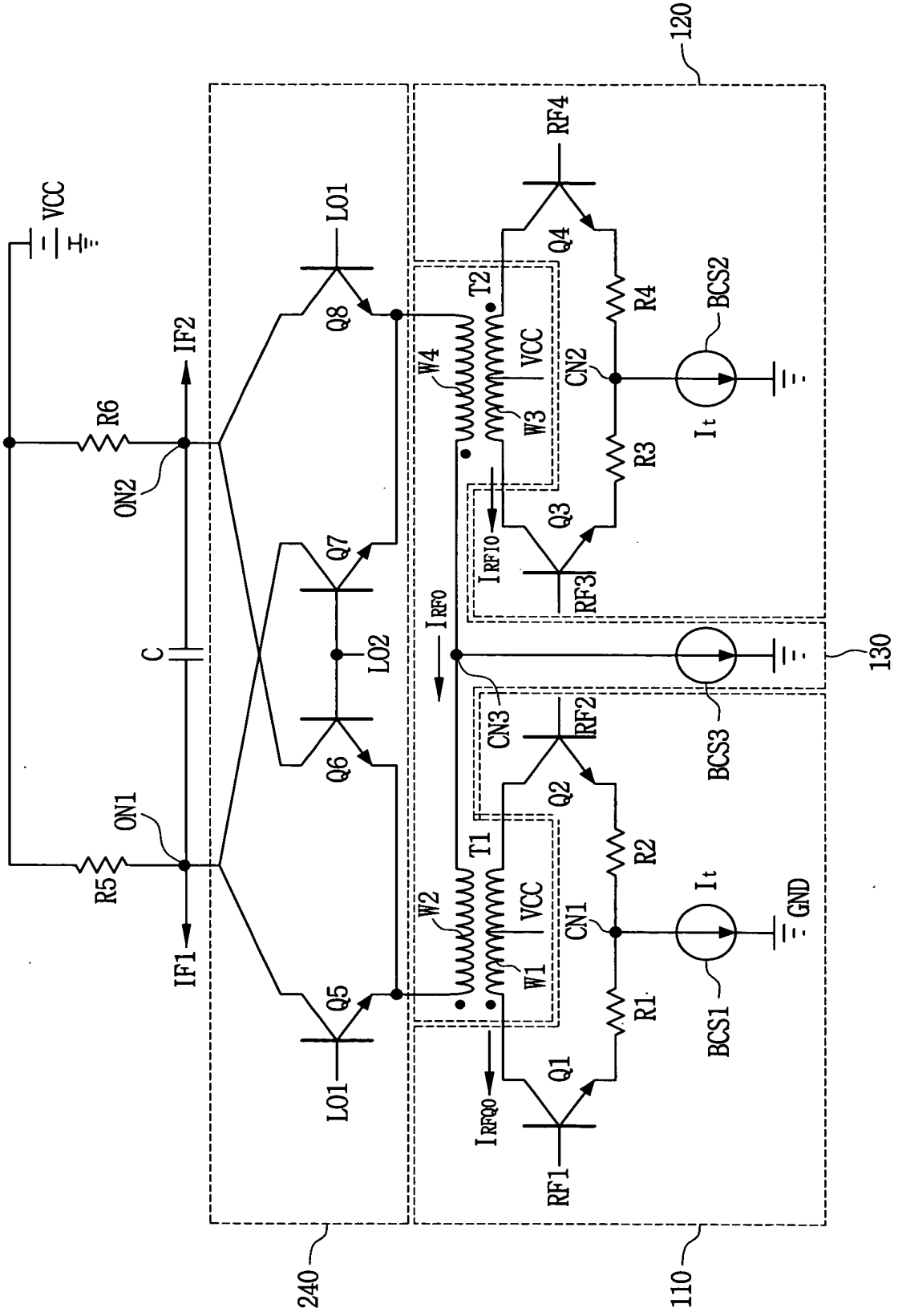

200
VCC
R6
R5
IF2
IF1
ON2
ON1
C
LO1
LO2
Q8
Q7
Q6
Q5
240
120
RF4
Q4
T2
W4
W3
VCC
CN2
R4
R3
BCS2
It
Q3
RF3
IRFIO
IRFO
130
BCS3
CN3
RF2
Q2
T1
W2
W1
R2
R1
CN1
BCS1
Q1
RF1
IRFQO
GND
110

FIG. 4

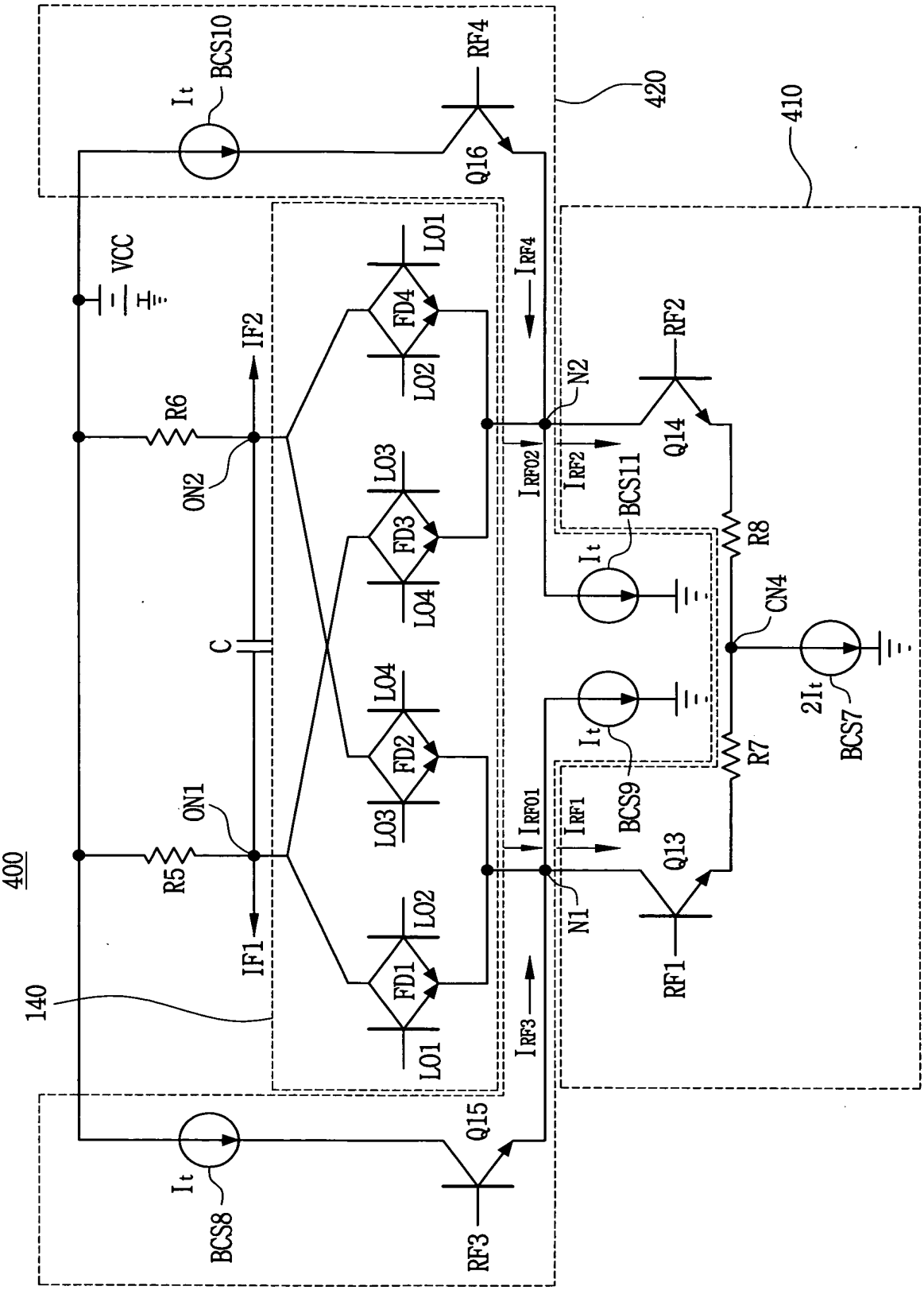

400
140
410
420
VCC
R5
R6
R7
R8
ON1
ON2
C
IF1
IF2
FD1
FD2
FD3
FD4
LO1
LO2
LO3
LO4
Q13
Q14
Q15
Q16
RF1
RF2
RF3
RF4
N1
N2
CN4
BCS7
BCS8
BCS9
BCS10
BCS11
It
2It
IRF1
IRF2
IRF3
IRF4
IRFO1
IRFO2

FIG.5

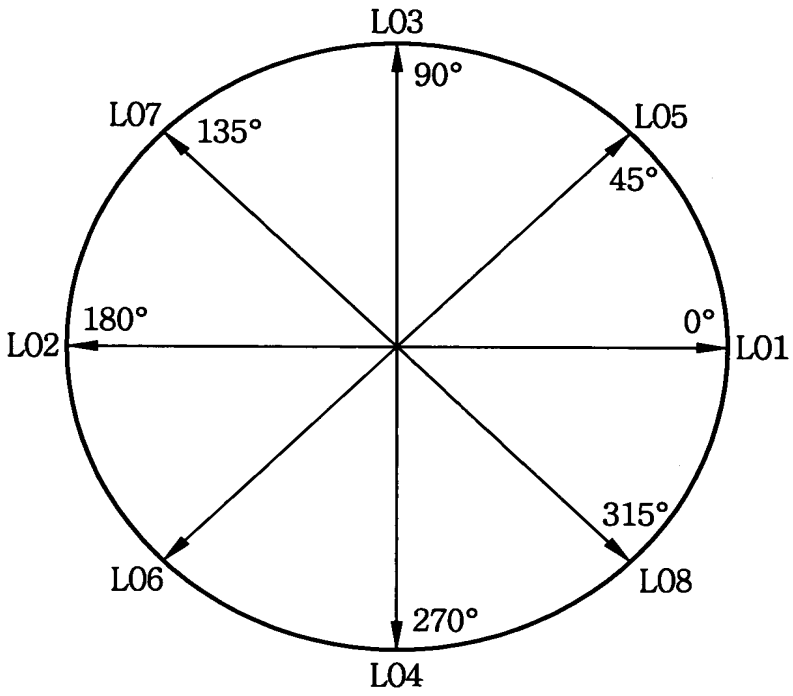


FIG.6

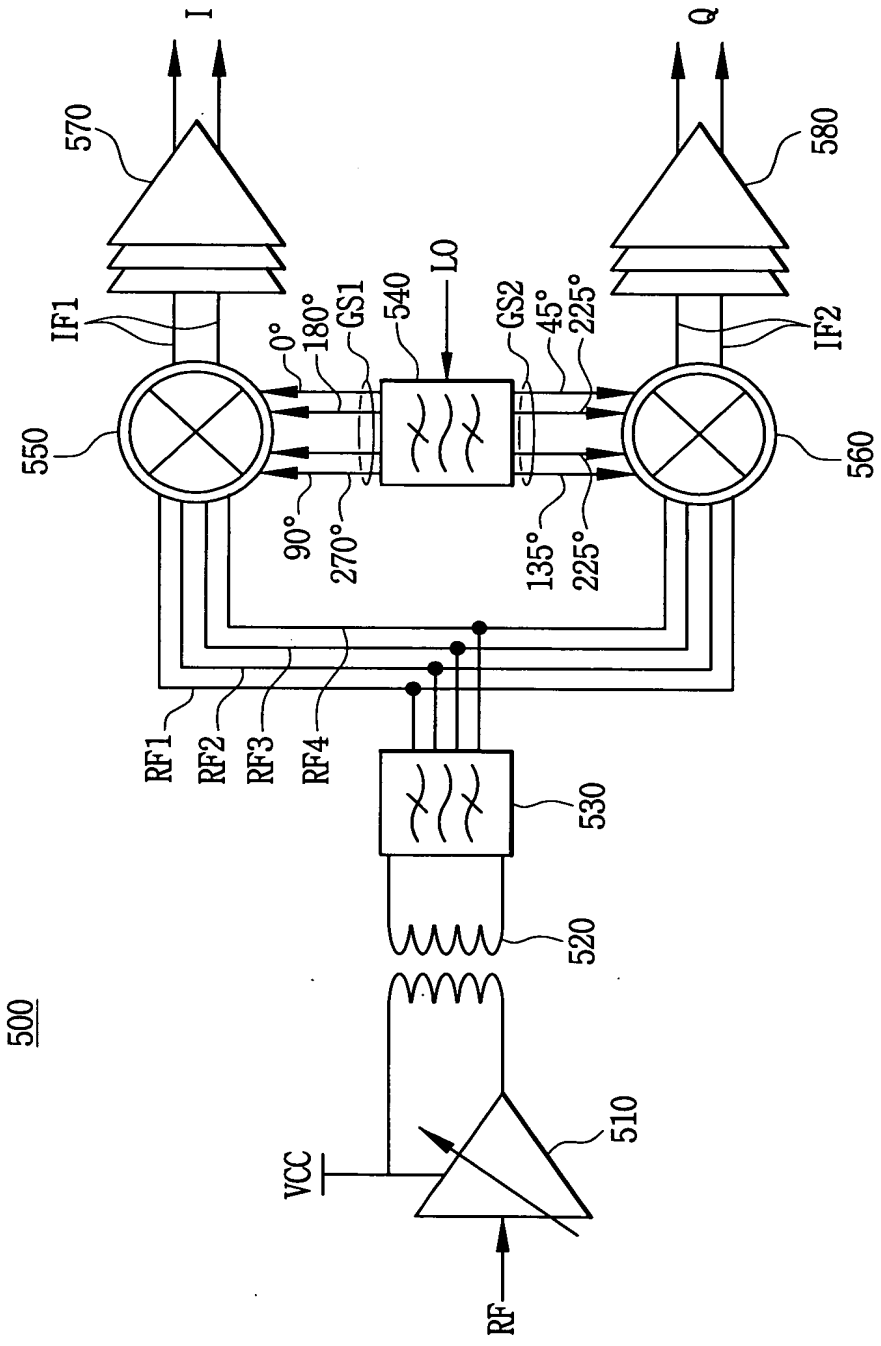
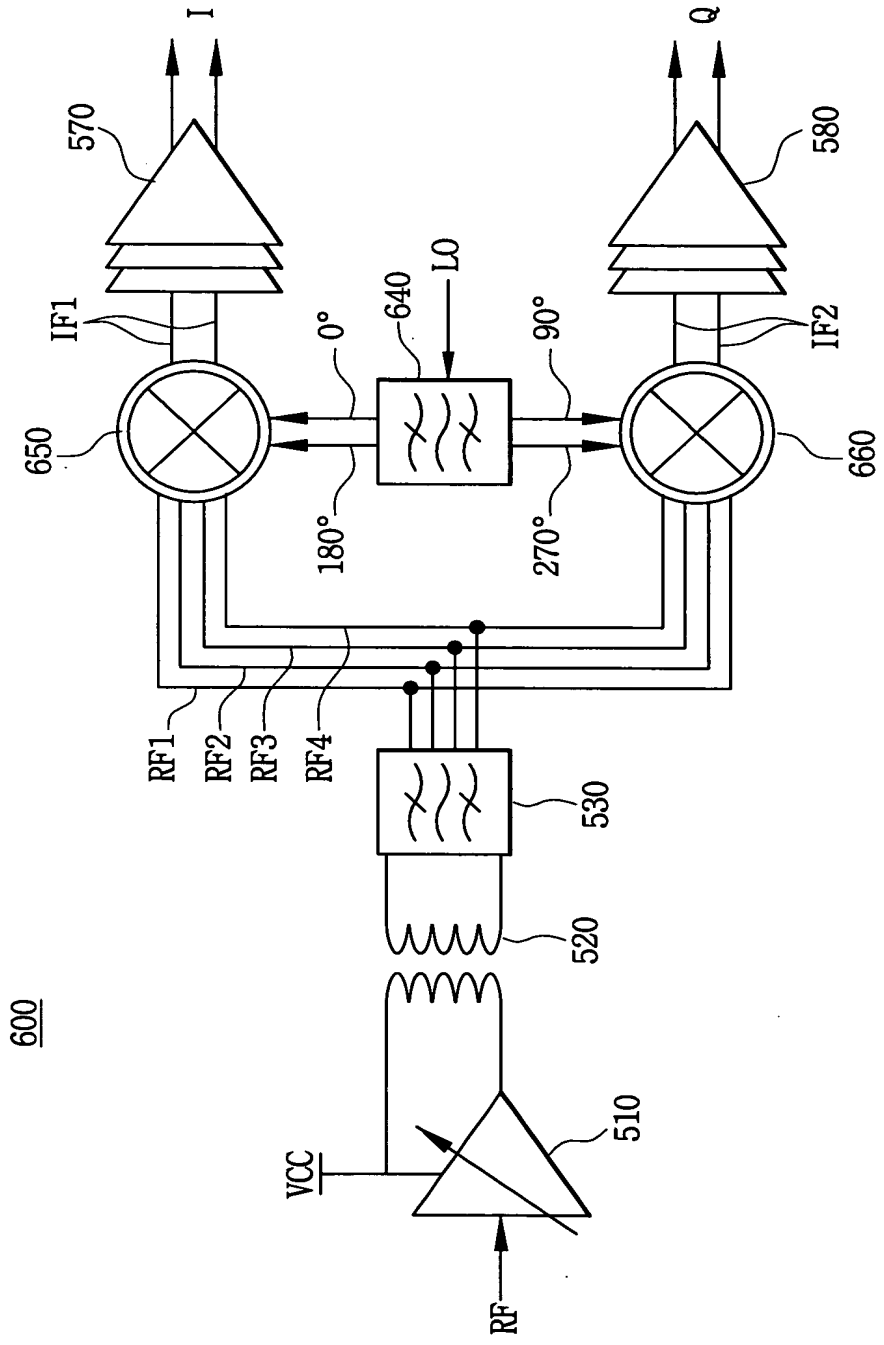

500
RF
VCC
510
520
530
RF1
RF2
RF3
RF4
550
560
570
580
IF1
IF2
I
Q
LO
540
GS1
GS2
0°
180°
90°
270°
45°
225°
135°
225°

FIG.7


600
VCC
RF
510
520
530
RF1
RF2
RF3
RF4
650
660
IF1
IF2
570
580
I
Q
LO
640
0°
90°
180°
270°